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REVOCATION AND SUBSTITUTION OF POWER OF ATTORNEY

Dear Sir:

I hereby revoke all previous powers of attorney or authorizations of agent given in the patent applications listed below and any continuations or divisionals thereof. I hereby appoint All Practitioners at Customer Number 08933 to prosecute all applications listed below and any continuations or divisionals thereof and to transact all business in the United States Patent and Trademark Office connected therewith.

I hereby appoint the following additional attorneys, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith:

Chien Chou
Simon Lu

Registration Number: 41,672
Registration Number: 51,974

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Please change the correspondence address for all the applications listed below to:

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All telephone calls for all applications listed below should be addressed to Steven E. Koffs at (215) 979-1250

CERTIFICATE UNDER 37 CFR 3.73(b)**Taiwan Semiconductor Manufacturing Co., Ltd., a Corporation**

(Name of Assignee)(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

certifies that it is the assignee of the entire right, title and interest in the patent applications identified below by virtue of an assignment from the inventor(s) of the patent applications:

Serial No.	Filing Date	Assignment Information
09/766,044	01/19/2001	Assignment recorded in the Patent and Trademark Office at Reel 011491, Frame 0720
09/804,389	03/13/2001	Assignment recorded in the Patent and Trademark Office at Reel 009766, Frame 0536
09/951,918	09/14/2001	Assignment recorded in the Patent and Trademark Office at Reel 012187, Frame 0301
10/037,586	01/04/2002	Assignment recorded in the Patent and Trademark Office at Reel 012456, Frame 0272
10/082,024	02/21/2002	Assignment recorded in the Patent and Trademark Office at Reel 012644, Frame 0780
10/083,991	02/26/2002	Assignment recorded in the Patent and Trademark Office at Reel 012656, Frame 0799
10/147,245	05/16/2002	Assignment recorded in the Patent and Trademark Office at Reel 011486, Frame 0228
10/178,401	06/24/2002	Assignment recorded in the Patent and Trademark Office at Reel 013050, Frame 0369
10/186,533	07/01/2002	Assignment recorded in the Patent and Trademark Office at Reel 009801, Frame 0627
10/236,336	09/06/2002	Assignment recorded in the Patent and Trademark Office at Reel 013275, Frame 0305

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10/236,380	09/06/2002	Assignment recorded in the Patent and Trademark Office at Reel 013277, Frame 0584
10/272,136	10/16/2002	Assignment recorded in the Patent and Trademark Office at Reel 011883, Frame 0276
10/290,644	11/08/2002	Assignment recorded in the Patent and Trademark Office at Reel 013486, Frame 0556
10/308,446	12/03/2002	Assignment recorded in the Patent and Trademark Office at Reel 013547, Frame 0771
10/323,422	12/19/2002	Assignment recorded in the Patent and Trademark Office at Reel 012235, Frame 0521
10/355,997	01/31/2003	Assignment recorded in the Patent and Trademark Office at Reel 013732, Frame 0020
10/357,578	02/04/2003	Assignment recorded in the Patent and Trademark Office at Reel 013734, Frame 0280
10/371,510	02/20/2003	Assignment recorded in the Patent and Trademark Office at Reel 013807, Frame 0608
10/417,320	04/16/2003	Assignment recorded in the Patent and Trademark Office at Reel 013978, Frame 0414
10/431,275	05/07/2003	Copy of Assignment attached
10/462,266	06/16/2003	Assignment recorded in the Patent and Trademark Office at Reel 010109, Frame 0304
10/627,795	07/25/2003	Assignment recorded in the Patent and Trademark Office at Reel 014338, Frame 0291
10/649,472	08/27/2003	Assignment recorded in the Patent and Trademark Office at Reel 012283, Frame 0901
10/671,259	09/25/2003	Assignment recorded in the Patent and Trademark Office at Reel 014553, Frame 0472
10/696,642	10/29/2003	Assignment recorded in the Patent and Trademark Office at Reel 014857, Frame 0905
10/758,315	01/15/2004	Assignment recorded in the Patent and Trademark Office at Reel 014908, Frame 0543
10/771,489	02/03/2004	Assignment recorded in the Patent and Trademark Office at Reel 014966, Frame 0428
10/788,170	02/26/2004	Assignment recorded in the Patent and Trademark Office at Reel 015033, Frame 0212
10/791,022	03/02/2004	Assignment recorded in the Patent and Trademark Office at Reel 011125, Frame 0466
10/807,037	03/23/2004	Assignment recorded in the Patent and Trademark Office at Reel 015133, Frame 0097
10/808,802	03/25/2004	Copy of Assignment attached
10/818,582	04/06/2004	Copy of Assignment attached


The undersigned has reviewed all the documents in the chain of title of the patent applications identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

PHI/1207452.1

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I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 10/21/2004 By: 
Name: Chien-Wei Chou
Title: Director, Intellectual Property Division

TS03-188

For ☒ U.S. and/or ☒ Foreign RightsFor ☒ Application or ☐ U.S. PatentBy ☒ Inventor(s) or ☐ Present Owner**ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

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Taiwan (ROC), Republic of China
do hereby sell, assign and transfer to China

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Taiwan, R.O.C.
Nationality

and the successors, assigns and legal representatives of the ASSIGNEE
(complete one of the following)

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☐ an undivided _____ percent (____%) interest for the United States and its territorial possessions
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In and to any and all improvements which are disclosed in the invention entitled:

A Two Step Trench Definition Procedure For Formation Of A Dual Damascene Opening In A
Stack Of Insulator Layers

and which is found in

- (a) ☒ U.S. patent application executed on even date herewith
 (b) ☐ U.S. patent application executed on _____
 (c) ☐ U.S. application serial no. _____ filed on _____
 (d) ☐ U.S. patent no. _____ issued _____
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IN WITNESS WHEREOF, I / We have signed this

PKYana 3/23/04 (Date of signing)

WARNING Date of signing must be the same as the date of execution of the application if item (a) was checked above.

PKYana 3/23/04
 Signature of ASSIGNEE
PKYana

If ASSIGNOR is a legal entity complete the following information

 Type or print the name of the above person authorized to sign on behalf of ASSIGNOR

 Title

Note No witnessing, notarization or legalization is necessary, if the assignment is notarized or legalized then it will only be prima facie evidence (35 USC 261). Use next page if notarization is desired.

 Notarization or Legalization Page Added.

3/23/04
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